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INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP03/08306

A. CLASSIFICATION OF SUBJECT MATTER
Int.Cl[7] C12N15/06, C12N5/20, C07K16/28, C12P21/08

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
Int.Cl[7] C12N15/00-90, C12N1/00-7/08, C07K14/00-16/46, C12P21/00-08

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
JICST FILE(JICST-EPLUS), EUROPAT(QUESTEL), SwissProt/PIR/GeneSeq, MEDLINE(STN), PUBMED, Genbank/EMBL/DDBJ/GeneSeq, WPI(DIALOG), BIOSIS(DIALOG)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 97/22361 A1 (OTSUKA PHARM CO., LTD.), 26 June, 1997 (26.06.97), & JP 9-227409 A & EP 870509 A1 & US 6190863 B1	1-6
X	Noriko OKADA et al., "Tosa Kogen GM2 ni Taisuru Hito-gata IgM Kotai no Ko-HIV Kassei", Nagoya Shiritsu Daigaku Igakukai Zasshi, 1999, Vol.50, No.1/2, pages 9 to 13	1-6
X	Wu Xiaoshan et al., The IgM antibody level against ganglioside GM2 correlates to the disease status of HIV-1-infected patients., Microbiology and Immunology 2000, Vol.44, No.5, pages 405 to 410	1-6

[X] Further documents are listed in the continuation of Box C. [ ] See patent family annex.

* Special categories of cited documents:
"A" document defining the general state of the art which is not considered to be of particular relevance
"E" earlier document but published on or after the international filing date
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
"O" document referring to an oral disclosure, use, exhibition or other means
"P" document published prior to the international filing date but later than the priority date claimed
"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"&" document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
05 September, 2003 (05.09.03)	16 September, 2003 (16.09.03)
Name and mailing address of the ISA/ Japanese Patent Office	Authorized officer
Facsimile No.	Telephone No.

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	Noriko OKADA et al., Human IgM monoclonal antibody to ganglioside GM2 and complement suppress virus propagation in ex vivo cultures of lymphocytes from HIV-1 infected patients., Microbiology and Immunology 1999, Vol.43, No.7, pages 723 to 727	1-6
T	Reika ASAI et al., "HIV-1 Kansen Saibo ni Hanno suru IgM Kotai no Hotai Kasseikano to Amino-san Hairetsu tono Kanrensei", Hotai Symposium·Nihon Seitai Bogyo Gakkai Godo Gakujutsu Shukai Koenshu, 2002, Vol.3, Nos.9 to 3, pages 35 to 35	1-6